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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=4; day=15; hr=18; min=59; sec=45; ms=152;]

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Application No: 10567386 Version No: 1.0

Input Set:

Output Set:

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Finished: 2008-04-01 11:26:38.254
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 194 ms
Total Warnings: 0
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No. of SeqIDs Defined: 141
Actual SeqID Count: 141

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<120> RA antigenic peptides

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<141> 2008-04-01

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<170> PatentIn version 3.2

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Leu

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Asp Arg Asn

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Arg Tyr Ile Ser Lys Tyr Glu Leu Asp Lys Ala Phe Ser Asp Arg
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Ile Ser Lys Tyr Glu Leu Asp Lys Ala Phe Ser Asp Arg Asn
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Gly Ser Arg Glu Ile Lys Ser Gln Gln Ser Glu Val Thr Arg Ile Leu
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Gly Ser Arg Glu Ile Lys Ser Gln Gln Ser Glu Val Thr Arg
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Arg Glu Ile Lys Ser Gln Gln Ser Glu Val Thr Arg Ile Leu
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Gly Pro His Asp Val His Val Gln Ile Glu Thr Ser Pro Pro Ala Arg
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Asn

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Gly Pro His Asp Val His Val Gln Ile Glu Thr Ser Pro Pro Ala Arg
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Asn Leu Lys

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Thr Pro His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala Phe Ile Cys
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Pro Gly

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Thr Pro His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala Phe Ile Cys
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Pro

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<211> 13

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Thr Pro His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala
1 5 10

<210> 34

<211> 14

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<213> Homo sapiens

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Gly Thr Pro His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala
1 5 10

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<211> 15

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Thr Pro His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala Phe Ile
1 5 10 15

<210> 36

<211> 18

<212> PRT

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<400> 36

Ile Asp Lys Glu Gly Val Ile Glu Pro Asp Thr Asp Ala Pro Gln Glu
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Met Gly

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Lys Glu Gly Val Ile Glu Pro Asp Thr Asp Ala Pro Gln Glu Met
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Ile Asp Lys Glu Gly Val Ile Glu Pro Asp Thr Asp Ala Pro Gln Glu
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Asp Lys Glu Gly Val Ile Glu Pro Asp Thr Asp Ala Pro Gln Glu
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20 25 30

Ala Ala Val Gln Ala Ser Pro Leu Gln Ala Leu Asp Phe Phe Gly Asn

35

40

45

Gly Pro Pro Val Asn Tyr Lys Thr Gly Asn Leu Tyr Leu Arg Gly Pro
50 55 60

Leu Lys Lys Ser Asn Ala Pro Leu Val Asn Val Thr Leu Tyr Tyr Glu
65 70 75 80

Ala Leu Cys Gly Gly Cys Arg Ala Phe Leu Ile Arg Glu Leu Phe Pro
85 90 95

Thr Trp Leu Leu Val Met Glu Ile Leu Asn Val Thr Leu Val Pro Tyr
100 105 110

Gly Asn Ala Gln Glu Gln Asn Val Ser Gly Arg Trp Glu Phe Lys Cys
115 120 125

Gln His Gly Glu Glu Glu Cys Lys Phe Asn Lys Val Glu Ala Cys Val
130 135 140

Leu Asp Glu Leu Asp Met Glu Leu Ala Phe Leu Thr Ile Val Cys Met
145 150 155 160

Glu Glu Phe Glu Asp Met Glu Arg Ser Leu Pro Leu Cys Leu Gln Leu
165 170 175

Tyr Ala Pro Gly Leu Ser Pro Asp Thr Ile Met Glu Cys Ala Met Gly
180 185 190

Asp Arg Gly Met Gln Leu Met His Ala Asn Ala Gln Arg Thr Asp Ala
195 200 205

Leu Gln Pro Pro His Glu Tyr Val Pro Trp Val Thr Val Asn Gly Lys
210 215 220

Pro Leu Glu Asp Gln Thr Gln Leu Leu Thr Leu Val Cys Gln Leu Tyr
225 230 235 240

Gln Gly Lys Lys Pro Asp Val Cys Pro Ser Ser Thr Ser Ser Leu Arg
245 250 255

Ser Val Cys Phe Lys
260

<210> 41
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<313> (1)..(4563)

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Leu Leu Leu Leu Leu Leu Ala Gly Ala Arg Ala Glu Glu Glu Met Leu
20 25 30

Glu Asn Val Ser Leu Val Cys Pro Lys Asp Ala Thr Arg Phe Lys His
35 40 45

Leu Arg Lys Tyr Thr Tyr Asn Tyr Glu Ala Glu Ser Ser Ser Gly Val
50 55 60

Pro Gly Thr Ala Asp Ser Arg Ser Ala Thr Arg Ile Asn Cys Lys Val
65 70 75 80

Glu Leu Glu Val Pro Gln Leu Cys Ser Phe Ile Leu Lys Thr Ser Gln
85 90 95

Cys Thr Leu Lys Glu Val Tyr Gly Phe Asn Pro Glu Gly Lys Ala Leu
100 105 110

Leu Lys Lys Thr Lys Asn Ser Glu Glu Phe Ala Ala Ala Met Ser Arg
115 120 125

Tyr Glu Leu Lys Leu Ala Ile Pro Glu Gly Lys Gln Val Phe Leu Tyr
130 135 140

Pro Glu Lys Asp Glu Pro Thr Tyr Ile Leu Asn Ile Lys Arg Gly Ile
145 150 155 160

Ile Ser Ala Leu Leu Val Pro Pro Glu Thr Glu Glu Ala Lys Gln Val
165 170 175

Leu	Phe	Leu	Asp	Thr	Val	Tyr	Gly	Asn	Cys	Ser	Thr	His	Phe	Thr	Val	180	185	190	
Lys	Thr	Arg	Lys	Gly	Asn	Val	Ala	Thr	Glu	Ile	Ser	Thr	Glu	Arg	Asp	195	200	205	
Leu	Gly	Gln	Cys	Asp	Arg	Phe	Lys	Pro	Ile	Arg	Thr	Gly	Ile	Ser	Pro	210	215	220	
Leu	Ala	Leu	Ile	Lys	Gly	Met	Thr	Arg	Pro	Leu	Ser	Thr	Leu	Ile	Ser	225	230	235	240
Ser	Ser	Gln	Ser	Cys	Gln	Tyr	Thr	Leu	Asp	Ala	Lys	Arg	Lys	His	Val	245	250	255	
Ala	Glu	Ala	Ile	Cys	Lys	Glu	Gln	His	Leu	Phe	Leu	Pro	Phe	Ser	Tyr	260	265	270	
Asn	Asn	Lys	Tyr	Gly	Met	Val	Ala	Gln	Val	Thr	Gln	Thr	Leu	Lys	Leu	275	280	285	
Glu	Asp	Thr	Pro	Lys	Ile	Asn	Ser	Arg	Phe	Phe	Gly	Glu	Gly	Thr	Lys	290	295	300	
Lys	Met	Gly	Leu	Ala	Phe	Glu	Ser	Thr	Lys	Ser	Thr	Ser	Pro	Pro	Lys	305	310	315	320
Gln	Ala	Glu	Ala	Val	Leu	Lys	Thr	Leu	Gln	Glu	Leu	Lys	Lys	Leu	Thr	325	330	335	
Ile	Ser	Glu	Gln	Asn	Ile	Gln	Arg	Ala	Asn	Leu	Phe	Asn	Lys	Leu	Val	340	345	350	
Thr	Glu	Leu	Arg	Gly	Leu	Ser	Asp	Glu	Ala	Val	Thr	Ser	Leu	Leu	Pro	355	360	365	
Gln	Leu	Ile	Glu	Val	Ser	Ser	Pro	Ile	Thr	Leu	Gln	Ala	Leu	Val	Gln	370	375	380	
Cys	Gly	Gln	Pro	Gln	Cys	Ser	Thr	His	Ile	Leu	Gln	Trp	Leu	Lys	Arg	385	390	395	400

Val His Ala Asn Pro Leu Leu Ile Asp Val Val Thr Tyr Leu Val Ala
405 410 415

Leu Ile Pro Glu Pro Ser Ala Gln Gln Leu Arg Glu Ile Phe Asn Met
420 425 430

Ala Arg Asp Gln Arg Ser Arg Ala Thr Leu Tyr Ala Leu Ser His Ala
435 440 445

Val Asn Asn Tyr His Lys Thr Asn Pro Thr Gly Thr Gln Glu Leu Leu
450 455 460

Asp Ile Ala Asn Tyr Leu Met Glu Gln Ile Gln Asp Asp Cys Thr Gly
465 470 475 480

Asp Glu Asp Tyr Thr Tyr Leu Ile Leu Arg Val Ile Gly Asn Met Gly
485 490 495

Gln Thr Met Glu Gln Leu Thr Pro Glu Leu Lys Ser Ser Ile Leu Lys
500 505 510

Cys Val Gln Ser Thr Lys Pro Ser Leu Met Ile Gln Lys Ala Ala Ile
515 520 525

Gln Ala Leu Arg Lys Met Glu Pro Lys Asp Lys Asp Gln Glu Val Leu
530 535 540

Leu Gln Thr Phe Leu Asp Asp Ala Ser Pro Gly Asp Lys Arg Leu Ala
545 550 555 560

Ala Tyr Leu Met Leu Met Arg Ser Pro Ser Gln Ala Asp Ile Asn Lys
565 570 575

Ile Val Gln Ile Leu Pro Trp Glu Gln Asn Glu Gln Val Lys Asn Phe
580 585 590

Val Ala Ser His Ile Ala Asn Ile Leu Asn Ser Glu Glu Leu Asp Ile
595 600 605

Gln Asp Leu Lys Lys Leu Val Lys Glu Ala Leu Lys Glu Ser Gln Leu
610 615 620

Pro Thr Val Met Asp Phe Arg Lys Phe Ser Arg Asn Tyr Gln Leu Tyr

625	630	635	640
Lys Ser Val Ser Leu Pro Ser Leu Asp Pro Ala Ser Ala Lys Ile Glu			
645	650	655	
Gly Asn Leu Ile Phe Asp Pro Asn Asn Tyr Leu Pro Lys Glu Ser Met			
660	665	670	
Leu Lys Thr Thr Leu Thr Ala Phe Gly Phe Ala Ser Ala Asp Leu Ile			
675	680	685	
Glu Ile Gly Leu Glu Gly Lys Gly Phe Glu Pro Thr Leu Glu Ala Leu			
690	695	700	
Phe Gly Lys Gln Gly Phe Phe Pro Asp Ser Val Asn Lys Ala Leu Tyr			
705	710	715	720
Trp Val Asn Gly Gln Val Pro Asp Gly Val Ser Lys Val Leu Val Asp			
725	730	735	
His Phe Gly Tyr Thr Lys Asp Asp Lys His Glu Gln Asp Met Val Asn			
740	745	750	
Gly Ile Met Leu Ser Val Glu Lys Leu Ile Lys Asp Leu Lys Ser Lys			
755	760	765	
Glu Val Pro Glu Ala Arg Ala Tyr Leu Arg Ile Leu Gly Glu Glu Leu			
770	775	780	
Gly Phe Ala Ser Leu His Asp Leu Gln Leu Leu Gly Lys Leu Leu Leu			
785	790	795	800
Met Gly Ala Arg Thr Leu Gln Gly Ile Pro Gln Met Ile Gly Glu Val			
805	810		